

Fig. 1
PRIOR ART

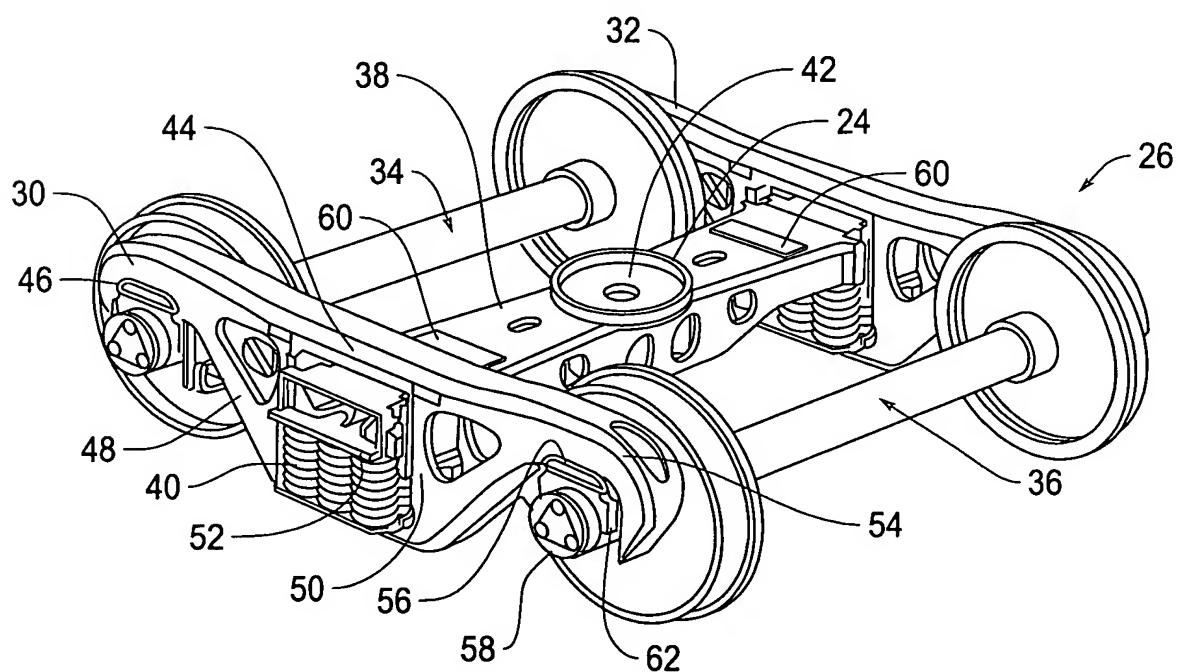


Fig. 2

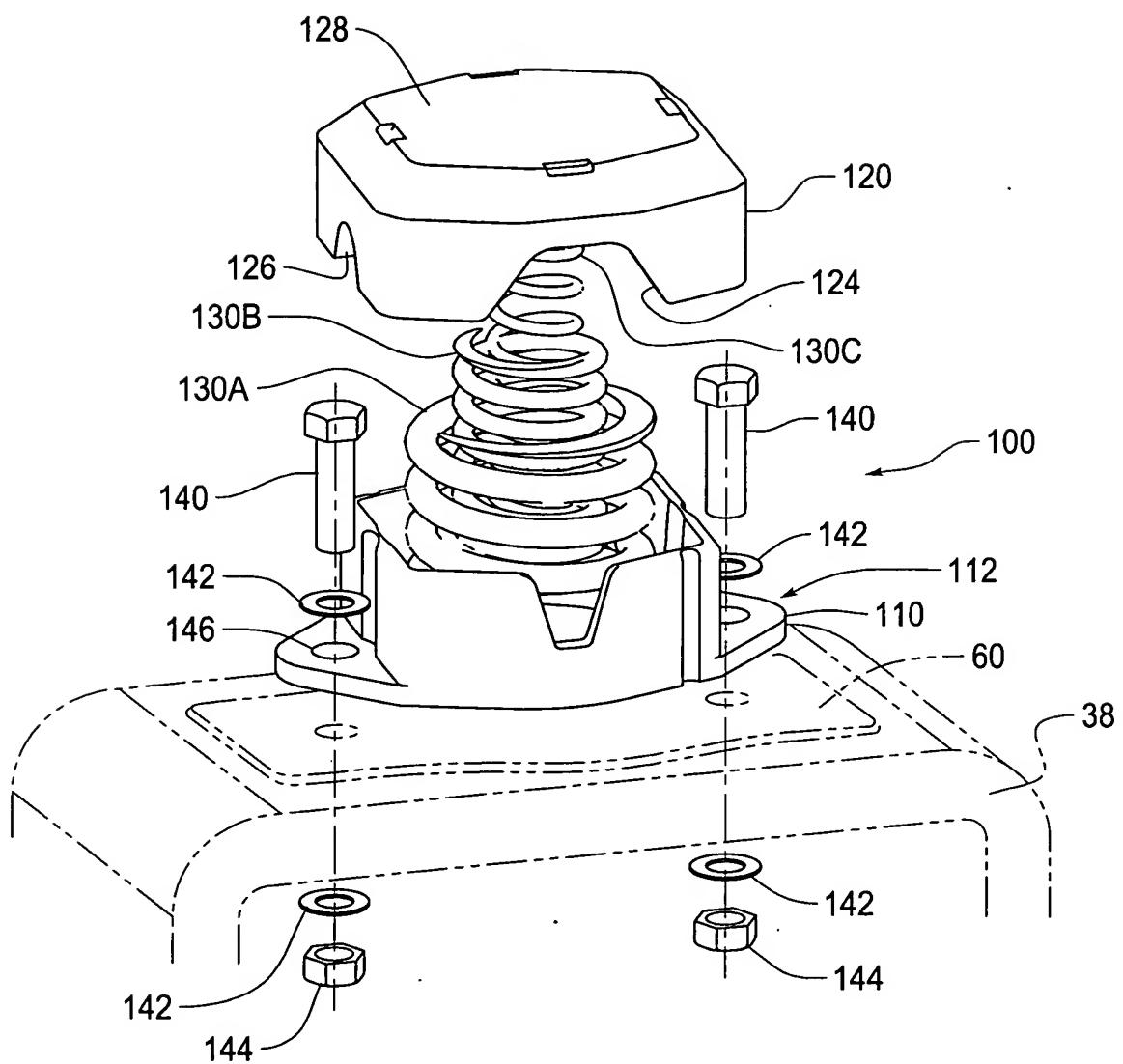


Fig. 3

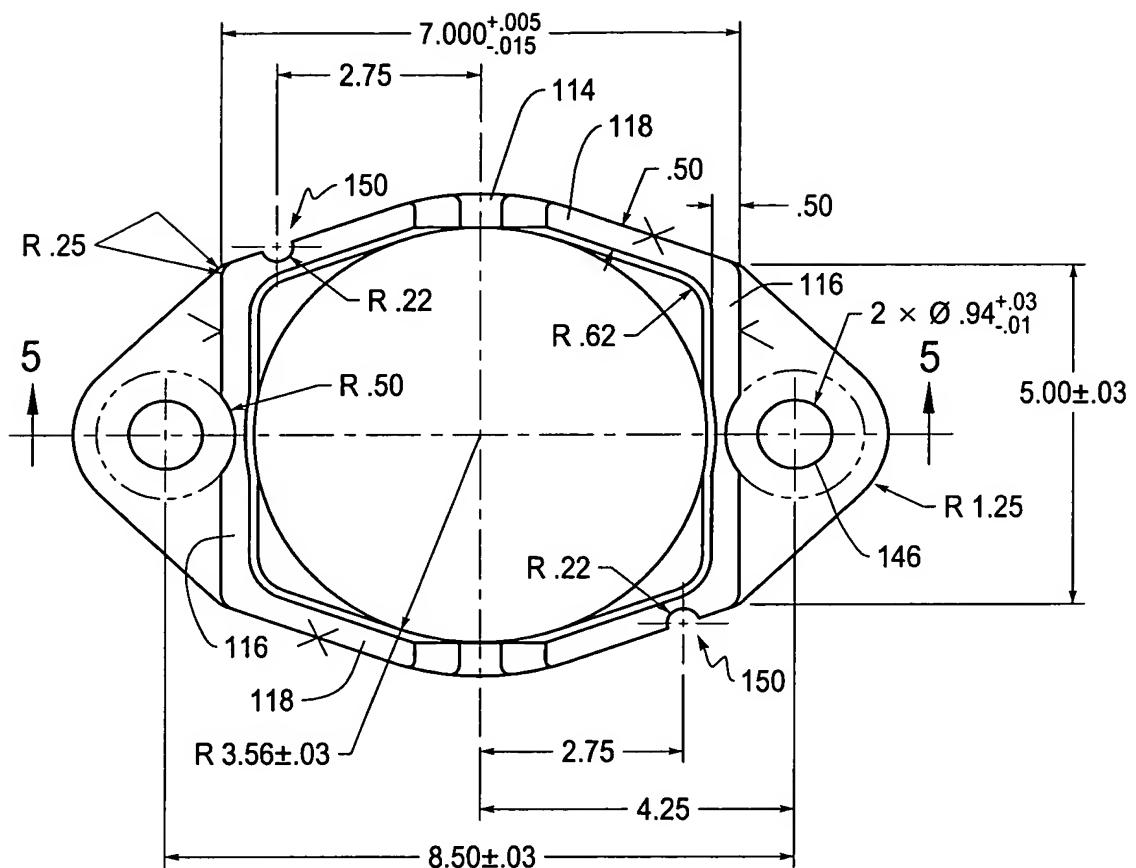


Fig. 4

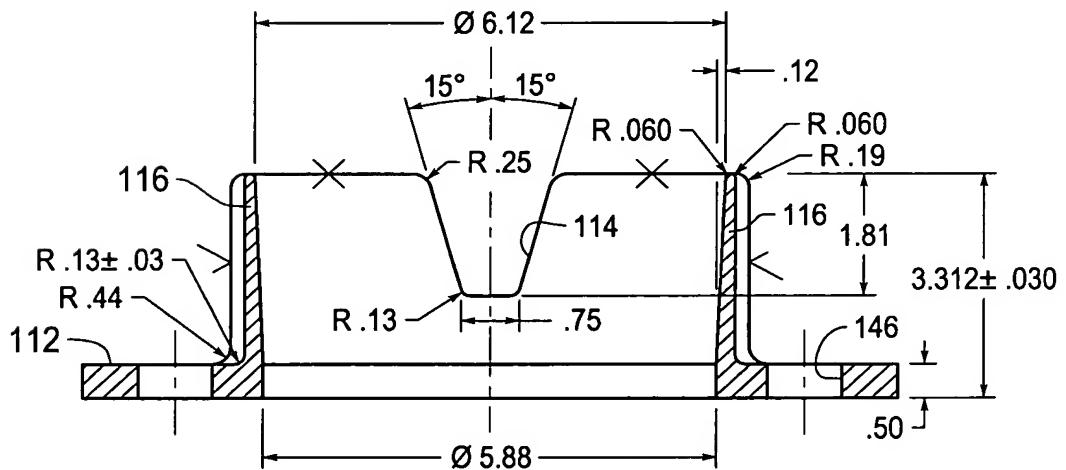


Fig. 5

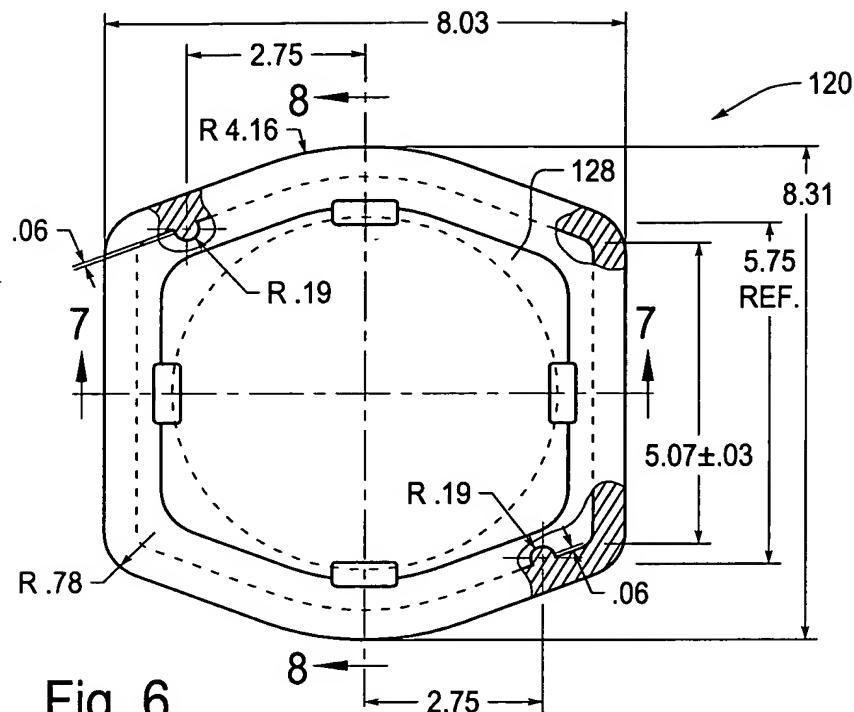


Fig. 6

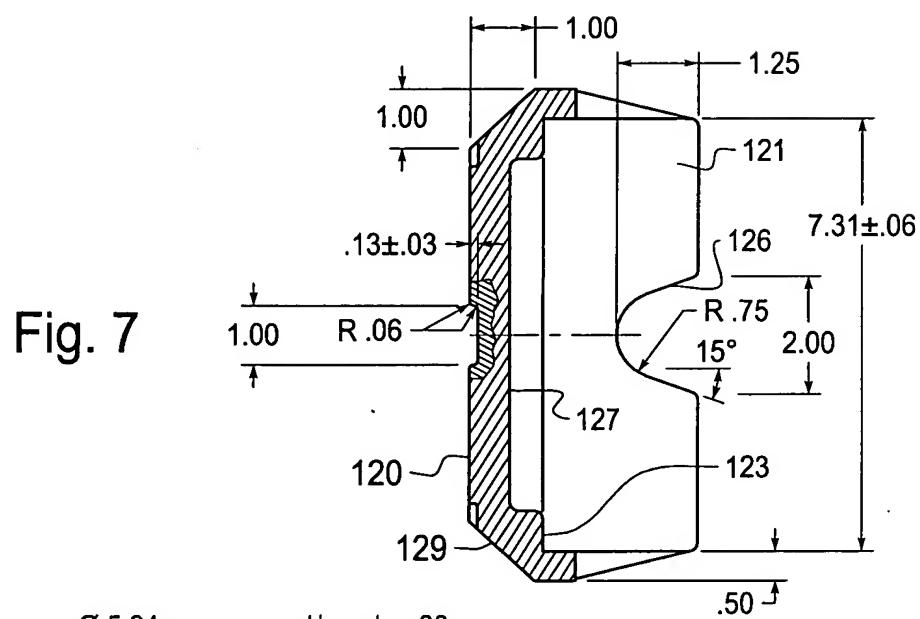


Fig. 7

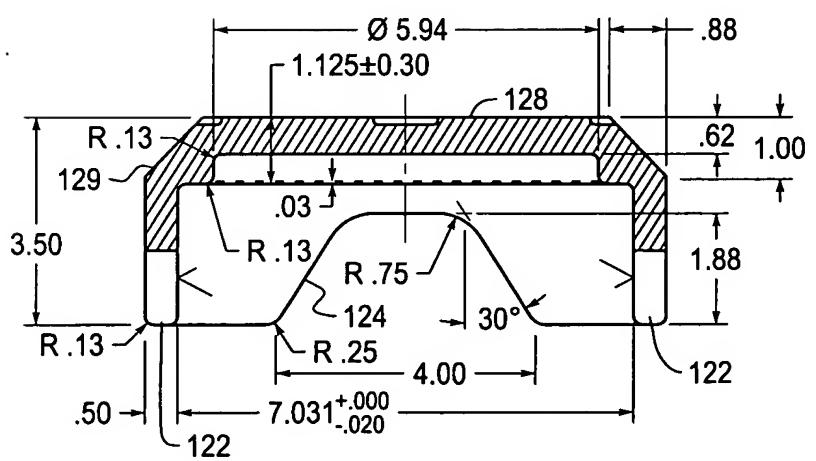


Fig. 8

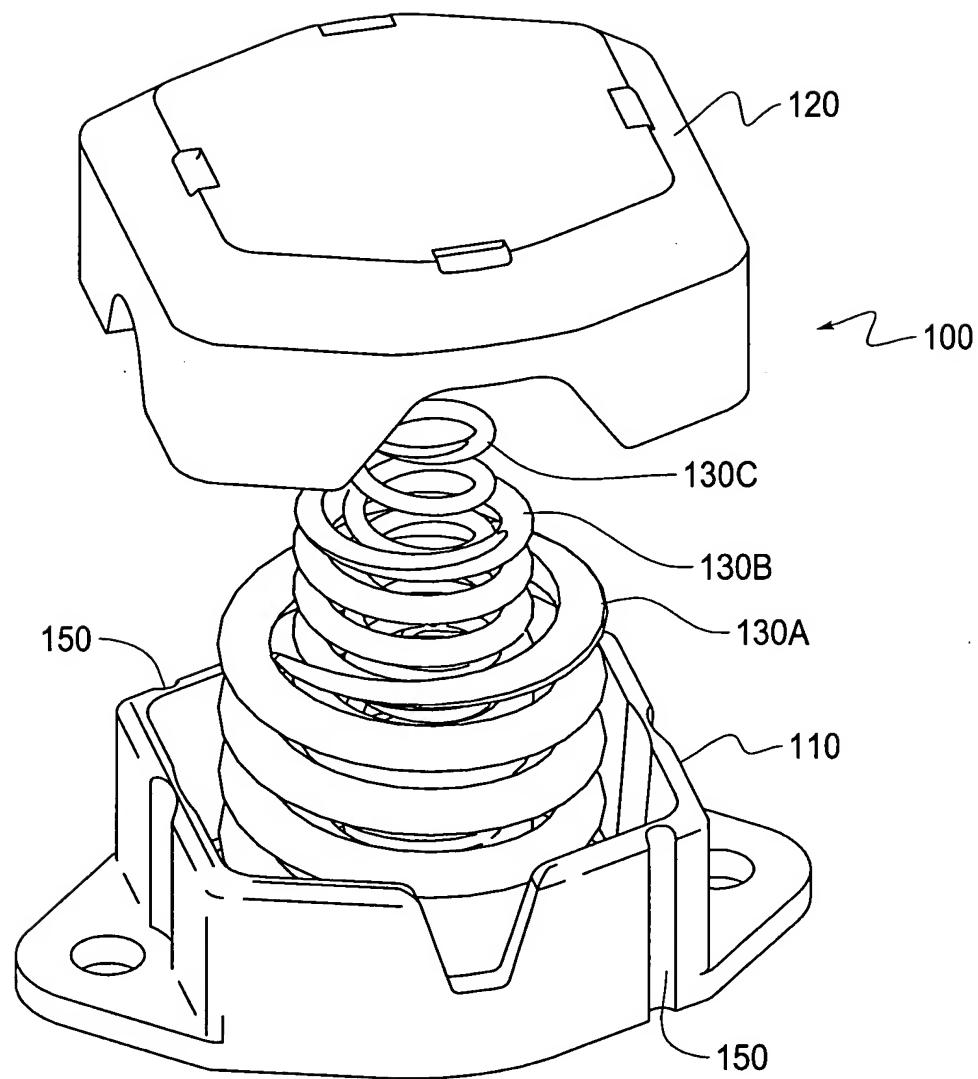


Fig. 9

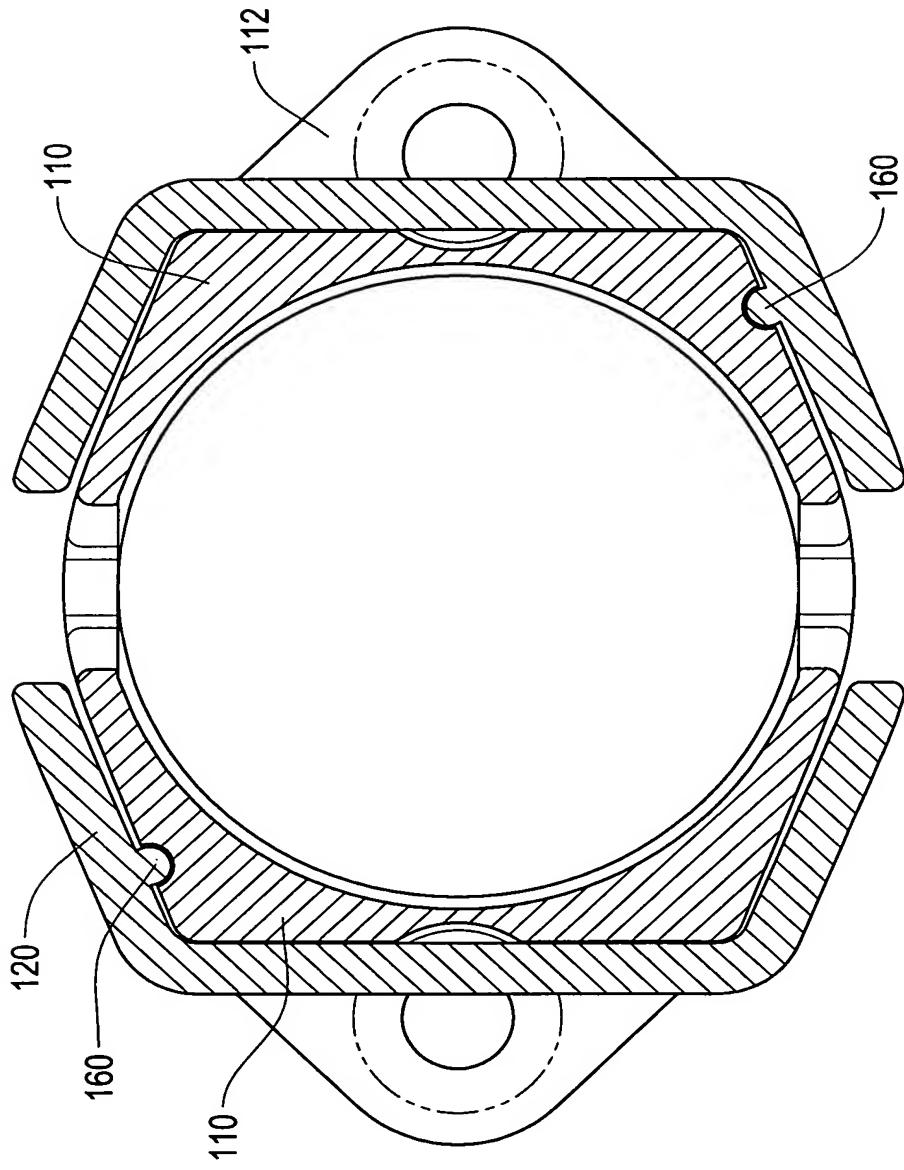


Fig. 10

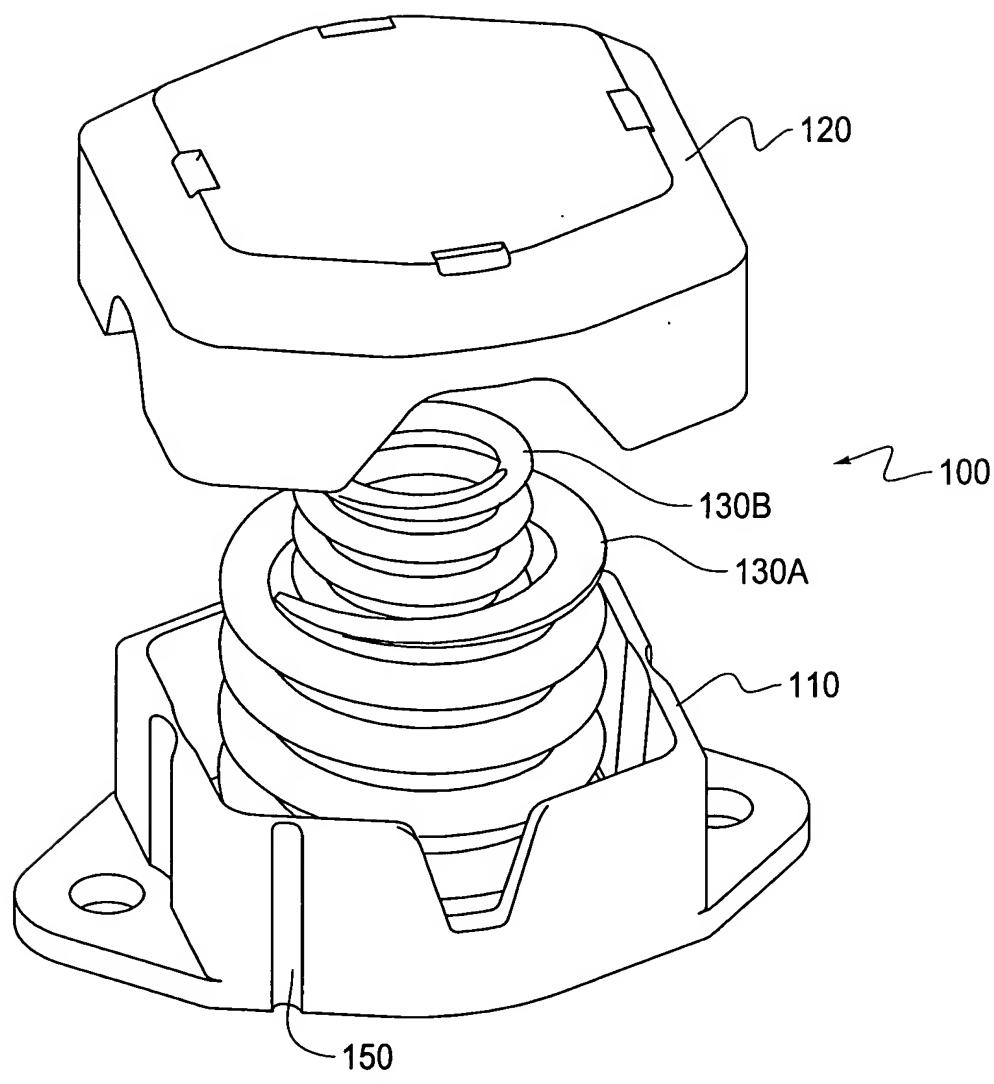
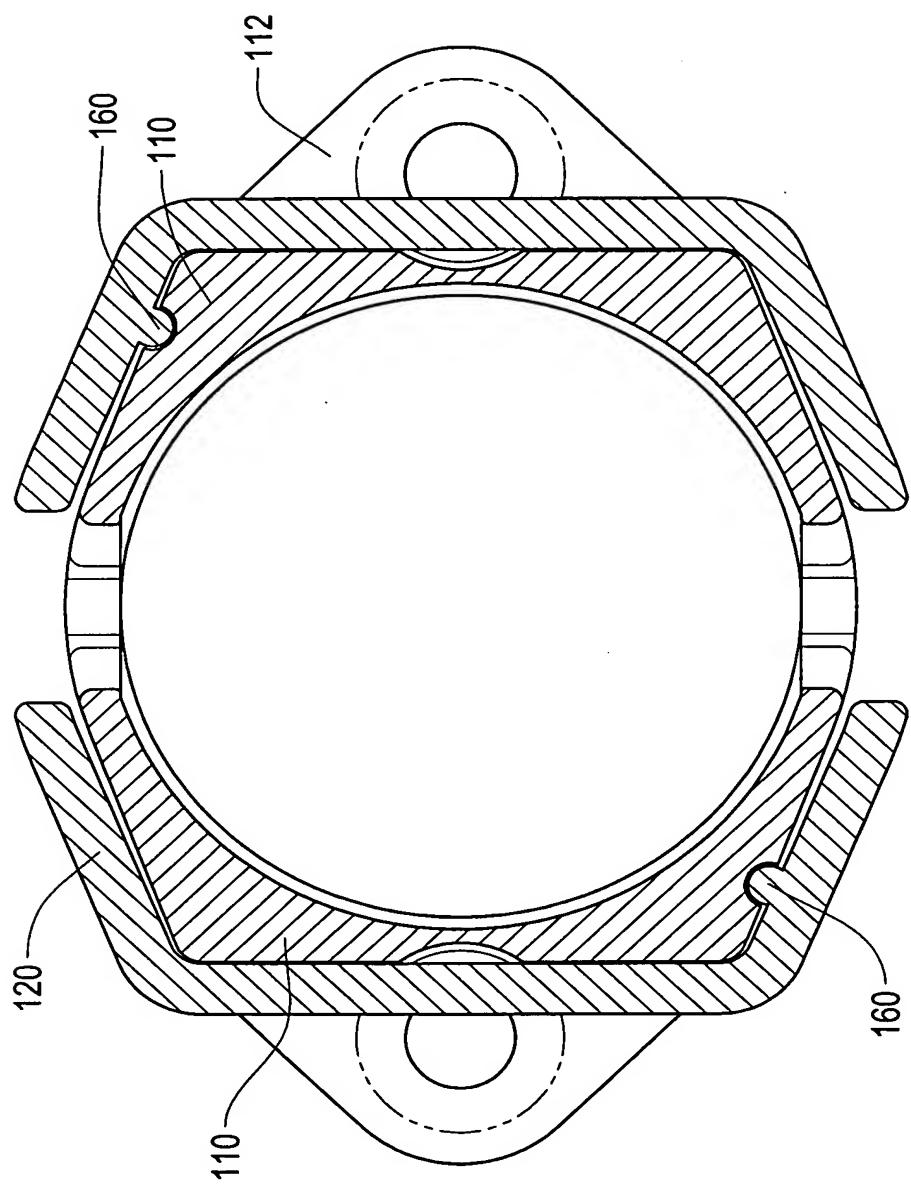


Fig. 11

Fig. 12



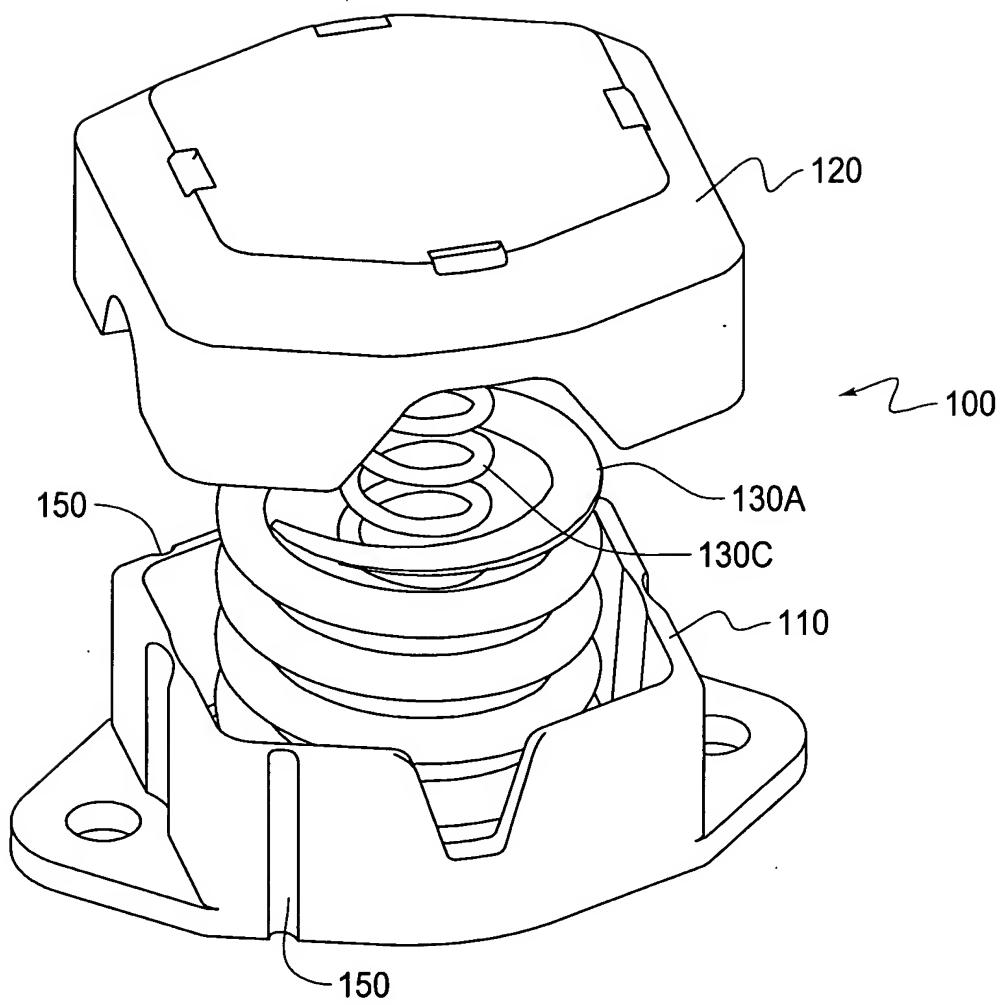


Fig. 13

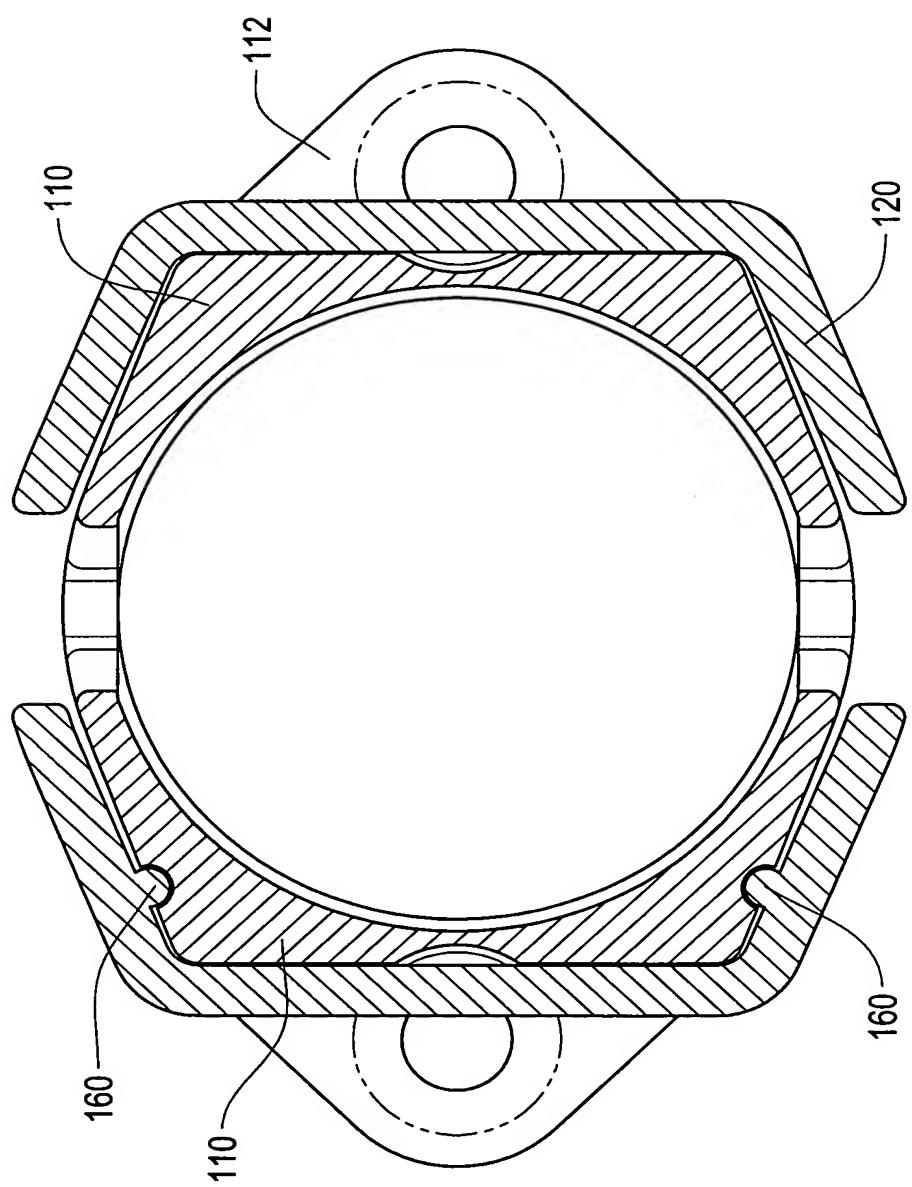


Fig. 14

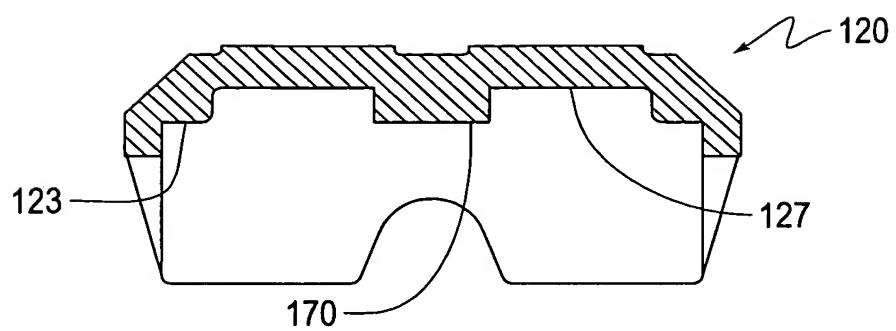


Fig. 15

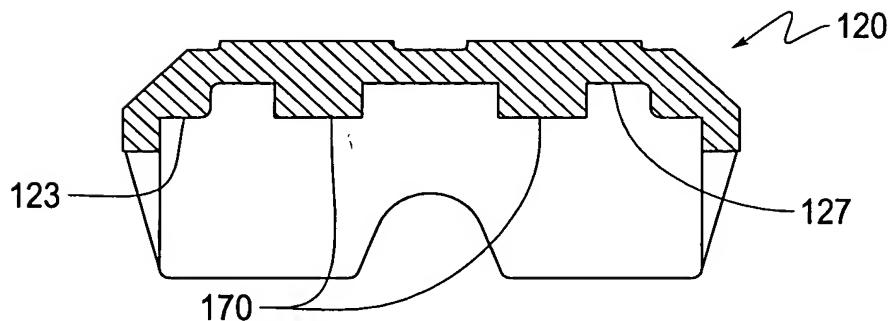


Fig. 16

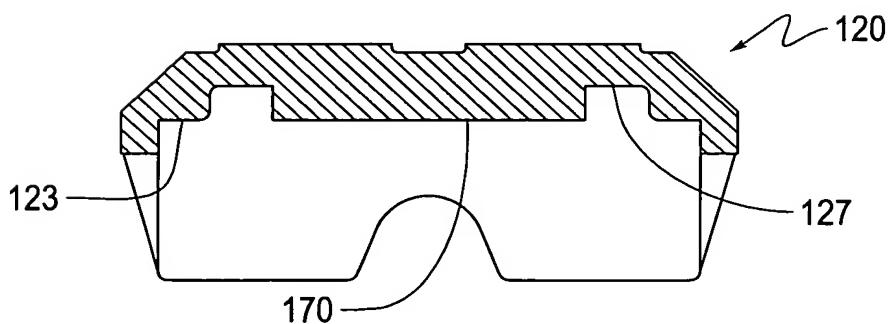


Fig. 17

SET #	SPRING	BAR DIAMETER	OUTSIDE DIAMETER	SOLID HEIGHT	FREE HEIGHT	TRAVEL	LOAD RATE	SOLID LOAD	SOLID STRESS	LOADED HEIGHT	LOAD @ HEIGHT
1	130A	0.94	5.72	3.75	5.30	1.55	3607	5590	125553	4.56	2660
	130B	0.66	3.70	3.75	5.25	1.50	2084	3125	125562	4.56	1432
	130C	0.44	2.20	3.75	5.00	1.25	1298	1623	129544	4.56	568
2	130A	0.94	5.72	3.75	5.30	1.55	3607	5590	125553	4.56	2660
	130B	0.66	3.70	3.75	5.45	1.70	1563	2658	123090	4.56	1388
	130C	0.44	2.30	3.88	5.30	1.43	1059	1509	124716	4.56	781
3	130A	0.94	5.72	3.75	5.30	1.55	3607	5590	125553	4.50	2885
	130B	0.66	3.70	3.75	5.25	1.50	2084	3125	126562	4.50	1563
	130C	0.44	2.30	3.88	5.30	1.43	1059	1509	124716	4.50	847
4	130A	0.94	5.72	3.75	5.30	1.55	3607	5590	125553	4.44	3111
	130B	0.66	3.70	3.75	5.25	1.50	2084	3125	126562	4.44	1693
	130C	0.44	2.20	3.75	5.00	1.25	1298	1623	129544	4.44	730
5	130A	0.94	5.72	3.68	5.30	1.62	3705	6003	135345	4.44	3196
	130B	0.66	3.70	3.68	5.25	1.57	2134	3350	135977	4.44	1734
	130C	0.44	2.23	3.68	5.00	1.32	1261	1665	134589	4.44	710
6	130A	0.88	5.70	3.68	5.72	2.04	2483	5065	137012	4.44	3184
	130B	0.63	3.75	3.68	5.56	1.88	1525	2871	134812	4.44	1716
	130C	0.38	2.25	3.68	5.75	2.07	498	1031	129039	4.44	654
							4506				5554

FIG. 18